



Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY



University with Graded Autonomy Status

(An ISO 21001 : 2018 Certified Institution)

Periyar E.V.R. High Road, Maduravoyal, Chennai-95. Tamilnadu, India.

RECORD NOTEBOOK

DOT NET LAB – (BCS18L12)

DEPARTMENT

OF

COMPUTER SCIENCE AND ENGINEERING

NAME : ANNAMALAI. P

REGISTER NO : 211061101029

COURSE : B.TECH-CSE

YEAR/SEM/SEC : IV/VII/A

2024-2025 (ODD SEMESTER)



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BONAFIDE CERTIFICATE

REGISTER NO: 211061101029

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DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

Certified that, this Record note book is a bonafide record of work done by **ANNAMALAI. P** of **IV** Year B.Tech CSE, Sec-‘A’ in the **DOT NET LAB (BCS18L12)** during the year **2024-2025**.

Signature of Lab-in-Charge

Signature of Head of Dept

Submitted for the Practical Examination held on -----

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2	27/06/2024	Implementation of Multiple Inheritance (C# .NET) A. Employee (C# .NET) B. Area of an Object (C# .NET)	11	
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Exp No: 1(i)

DATE: 20/06/2024

COMPLEX NUMBER

AIM:

To write a C# program to calculate complex number.

ALGORITHM:

1. Start the program.
2. Enter the variables that is needed.
3. Assign the value them.
4. Get input from user and store it into the variable.
5. Use switch case for various operation.
6. Stop the program.

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace Program{
class Exp1{
static void Main(string[] args) {
    int a;
    int b;
    int c;
    int d;
    int ac=0;
    int bd=0;
    int cd = 0;
    char op;
    Console.WriteLine("191061101023/M.Arvind/4thYear/A");
    Console.WriteLine("Enter first number");
    a = Convert.ToInt16(Console.ReadLine());
```

```

Console.WriteLine("Enter second number");

b = Convert.ToInt16(Console.ReadLine());
Console.WriteLine("Enter Third number");
c = Convert.ToInt16(Console.ReadLine());
Console.WriteLine("Enter Forth number");
d = Convert.ToInt16(Console.ReadLine());
Console.WriteLine("Enter Operator");
op=Console.ReadLine()[0];
    switch(op){
        case '+': ac = a+c;
            bd = b+d;
            break;
        case '-': ac = a-c;
            bd = b-d;
            break;
        case '*': ac = a*c;
            bd = b*d;
            break;
        case '/': ac = a/c;
            bd = b/d;
            break;
    }
    if(op=='/'){
        Console.WriteLine( ac + "/" + cd + "" + "+" +bd + "/" +cd + "i");
    }
    else{
        Console.WriteLine(ac + "" + "+" + bd + "i");
    }
}
}

```

OUTPUT:

Enter First Number:

2

Enter Second Number:

2

Enter third Number:

2

Enter Fourth Number:

2

Enter Operator:

+

4+4i

RESULT:

Hence, the program Complex number is executed & output is verified.

MATRIX

AIM:

To write a C# program to find factorial of a given number.

ALGORITHM:

1. Start the program.
2. Enter the number for matrix 1&2.
3. Use for loop for getting user input and present it as matrix.
4. Use for loop operations.
5. Print both the matrix and do the operations
6. Stop the program.

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace Program{
    class Exp1{

        static void Main(string[] args)

        { int i, j;

            int[,] arr1 = new int[10, 10];

            int[,] arr2 = new int[10, 10];

            int[,] arr3 = new int[10, 10];

            Console.WriteLine("191061101023/M      Arvind/4th

            Year/A") Console.Write("Input elements in the matrix 1

            :\n");

            for (i = 0; i < 3; i++)
```

```

{
    for (j = 0; j < 3; j++)
    {
        Console.Write("element - [{0},{1}] : ", i, j);

        arr1[i, j] =

        Convert.ToInt32(Console.ReadLine());

    }
}

Console.Write("\nThe matrix 1 is :

\n"); for (i = 0; i < 3; i++)
{
    Console.Write("\n");

    for (j = 0; j < 3; j++)

        Console.Write("{0}\t", arr1[i, j] + "\t");

}

Console.Write("\n\n");

//Console.Read();

Console.Write("Input elements in the matrix 2

\n"); for (i = 0; i < 3; i++)
{
    for (j = 0; j < 3; j++)

    {

        Console.Write("element - [{0},{1}] : ", i, j);

        arr2[i, j] =

        Convert.ToInt32(Console.ReadLine());

```



```

    }
}
Console.WriteLine("\nThe matrix 2 is :

\n"); for (i = 0; i < 3; i++)

{
    Console.WriteLine("\n");

    for (j = 0; j < 3; j++)

        {
            Console.WriteLine("{0}\t", arr2[i, j] + "\t");
        }
    Console.WriteLine("\n\n");
}
// addition
for (i = 0; i < 3; i++)
{
    for (j = 0; j < 3; j++)
    {
        arr3[i, j] = arr1[i, j] + arr2[i, j];
    }
    Console.WriteLine();
}
Console.WriteLine("Adding 2 matrix:");
for (i = 0; i < 3; i++)
{
    for (j = 0; j < 3; j++)
    {
        Console.WriteLine("{0}\t", arr3[i, j] + "\t");
    }
    Console.WriteLine();
}
Console.ReadLine();

//subtraction

for (i = 0; i < 3; i++)

{
    for (j = 0; j < 3; j++)
    {
        arr3[i, j] = arr1[i, j] - arr2[i, j];
    }
    Console.WriteLine();
}

```

```

    }
    Console.WriteLine("sub of two
matrix:"); for (i = 0; i < 3; i++)
    {
        for (j = 0; j < 3; j++)
        {
            Console.Write("{0}\t", arr3[i, j] + "\t");
        }
        Console.WriteLine();
    }
    Console.ReadLine();
    // multiple
    for (i = 0; i < 3; i++)
    {
        for (j = 0; j < 3; j++)
        {
            arr3[i, j] = arr1[i, j] * arr2[i, j];
        }
    }
    Console.WriteLine();
}
Console.WriteLine("multiple of two matrix:");

for (i = 0; i < 3; i++)

{
    for (j = 0; j < 3; j++)

    {
        Console.Write("{0}\t", arr3[i, j] + "\t");
    }
    Console.WriteLine();

}
Console.ReadLine();

//division

for (i = 0; i < 3; i++)

{
    for (j = 0; j < 3; j++)

    {
        arr3[i, j] = arr1[i, j] / arr2[i, j];
    }
    Console.WriteLine();
}
Console.WriteLine("divide of two

```

```

matrix:"); for (i = 0; i < 3; i++)
{
    for (j = 0; j < 3; j++)
    {
        Console.Write("{0}\t", arr3[i, j] + "\t");
    }
    Console.WriteLine();
}
Console.ReadLine();
}
}
}

```

OUTPUT:

Enter First Matrix Rows: 2

Enter First Matrix Columns: 2 Enter

First Matrix Elements: 1

2

3

4

Enter Operator: +

Enter Second Matrix rows: 2

Enter Second Matrix Columns: 2 Enter

Second Matrix Elements: 1

2

3

4

RESULT:

Hence, the program Matrix is executed & output is verified.

TIME**AIM:**

To write a C# program for current date and time.

ALGORITHM:

1. Start the program.
2. Create class and methods.
3. Create a string of array and store the months.
4. Use predefined statement for getting current date and time .
5. Print the date and time.
6. Stop the program.

PROGRAM:

```
using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Time {

    class Program {

        static void Main(string[] args) {

            Console.WriteLine("191061101023/M Arvind/4th Year/A");

            Console.WriteLine("Current Date and Time is : ");

            DateTime now = DateTime.Now;

            Console.WriteLine(now);

            Console.ReadLine();

        }

    }

}
```

```
}
```

```
}
```

OUTPUT:

Current Date and Time is: 11-07-2022 15:28:21

RESULT:

Hence, the program to find date and time is executed & output is verified.

EMPLOYEE DETAILS

AIM:

To write a C# program for the Employee details using multiple inheritance.

ALGORITHM:

1. Start the program.
2. Create a class .
3. Create a variable and store user input values in it.
4. Display those values in other class using “Extend ” keyword.
5. And create object for 1st class and print the variables.
6. Stop the program.

PROGRAM:

```
using System;

interface IPerson
{
    string Name { get; set; }
}

interface IEmployee
{
    int Salary { get; set; }
}

class Person : IPerson
{
    public string Name { get; set; } = "Messi";
}

class Employee : IEmployee
{
    public int Salary { get; set; } = 20000;
}
```

```

class Customer : IPerson, IEmployee
{
    IPerson person;
    IEmployee employee;
    public Customer(string phoneNumber)
    {
        person = new Person();
        employee = new Employee();
        Name = person.Name;
        Salary = employee.Salary;
        Contact = phoneNumber;
    }
    public string Name { get; set; }
    public int Salary { get; set; }
    public string Contact { get; set; }
}

public class GreetReads
{
    public static void Main(string[] args)
    {
        Console.WriteLine("191061101023/M Arvind/4th Year/A");
        Customer customer = new Customer("9923454677");
        Console.WriteLine("Customer details:");
        Console.WriteLine(" -----");
        Console.WriteLine($"Name: {customer.Name}");
        Console.WriteLine($"Salary: {customer.Salary}");
        Console.WriteLine($"Contact: {customer.Contact}");
        Console.Read();
    }
}

```

OUTPUT:

Customer details:

Name: Jungkook

Salary: 20000

Contact: 9999999999

RESULT:

Hence, the program for the Employee details using multiple inheritance is executed & output is verified.

AREA OF AN OBJECT**AIM:**

To write a C# program to find the area of objects.

ALGORITHM:

1. Start the program.
2. Create an interface Area and declare a method compute.
3. Define two class Square and Circle implementing Area.
4. In classes define the method of interface.
5. Perform the necessary calculation.
6. Display the result as per the given value.
7. Stop the program.

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace Area
{
    interface Triangle
    {
        float aot();
    }
    interface Square
    {
        float aos();
    }
    interface Rectangle
    {
        float aor();
    }
}
```

```

interface Circle
{
    float aoc();
}
class Calculation : Triangle,Square,Rectangle,Circle
{
    public float result1;
    public float aot()
    {
        Console.WriteLine("Enter the Hypotanues and Base");
        float h=float.Parse(Console.ReadLine());
        float s=float.Parse(Console.ReadLine());
        return result1 = (h*s)/2;
    }
    public float result2;
    public float aos()
    {
        Console.WriteLine("Enter the Side");
        float a=float.Parse(Console.ReadLine());
        return result2 = a*a;
    }
    public float result3;
    public float aor()
    {
        Console.WriteLine("Enter the Length & Breadth");
        float l=float.Parse(Console.ReadLine());
        float b=float.Parse(Console.ReadLine());
        return result3 = l * b;
    }
    public float result4;
    public float aoc()
    {
        Console.WriteLine("Enter the Radius");
        float r=float.Parse(Console.ReadLine());

```

```

        return result4 = ((22/7)*(r*r));
    }

class Program
{
    static void Main(string[] args)
    {
        Console.WriteLine("191061101023/M.Arvind/4th Year/A");
        Calculation c = new Calculation();
        Console.WriteLine("Enter the type of Object");
        Console.WriteLine("1 for Triangle");
        Console.WriteLine("2 for Square");
        Console.WriteLine("3 for Rectangle");
        Console.WriteLine("4 for Circle");
        int z=Convert.ToInt32(Console.ReadLine());
        switch(z)
        {
            case 1:
                c.aot();
                Console.WriteLine("Area of Triangle " + c.result1);
                break;
            case 2:
                c.aos();
                Console.WriteLine("Area of Square: " + c.result2);
                break;
            case 3:
                c.aor();
                Console.WriteLine("Area of Rectangle : " + c.result3);
                break;
            case 4:
                c.aoc();
                Console.WriteLine("Area of Circle: " + c.result4);
                break;
            default:

```

```
        Console.WriteLine("Wrong Choice");
        break;
    }
    Console.ReadKey();
}
}
```

OUTPUT:

```
Enter the type of object
1 for Triangle
2 for Square
3 for Rectangle
4 for Circle
1
Enter the Hypotaneous and Base
2
3
Area of Triangle 3
```

RESULT:

Hence, the program to find the area of objects is executed & output is verified.

IMPLEMENTING MULTI THREADING

AIM:

To write a C# program to Implement Multithreading.

ALGORITHM:

1. Start the program.
2. Create a class
3. Create a threads t1,t2,t3 and give name inside a main
4. Create 3 methods for executing something
5. Call 3 methods using 3 different threads
6. Stop the program.

PROGRAM:

```
using System.Threading;

public class GFG {
    public static void method1()
    {
        for (int I = 0; I <= 10; I++) {
            Console.WriteLine("Method1 is : {0}", I);
            if (I == 5) {
                Thread.Sleep(6000);
            }
        }
    }

    public static void method2()
    {
        for (int J = 0; J <= 10; J++) {
            Console.WriteLine("Method2 is : {0}", J);
        }
    }

    static public void Main()
    {
        Console.WriteLine("211061101029 / Annamalai/4th Year/A);
```

```
Thread thr1 = new Thread(method1);  
    Thread thr2 = new Thread(method2);  
    thr1.Start();  
    thr2.Start();  
}  
}
```

OUTPUT:

Method1 is : 0
Method1 is : 1
Method1 is : 2
Method1 is : 3
Method1 is : 4
Method1 is : 5
Method2 is : 0
Method2 is : 1
Method2 is : 2
Method2 is : 3
Method2 is : 4
Method2 is : 5
Method2 is : 6
Method2 is : 7
Method2 is : 8
Method2 is : 9
Method2 is : 10
Method1 is : 6
Method1 is : 7
Method1 is : 8
Method1 is : 9
Method1 is : 10

RESULT:

Hence, the program to Implement Multi threading is executed & output is verified.

EXCEPTION HANDLING

AIM:

To write a c# program to implement Exception handling

ALGORITHM:

1. Start the program.
2. Create a class
3. Create an array
4. Use try, catch blocks to handle exceptions
5. Stop the program.

PROGRAM:

using System;

```
class Program : System.Exception {  
  
    static void Main(string[] args)  
  
    {  
  
        // Declare an array of max index 4  
  
        int[] arr = { 1, 2, 3, 4, 5 };  
  
        // Display values of array elements  
  
        for (int i = 0; i < arr.Length; i++) {  
  
            Console.WriteLine(arr[i]);  
  
            Console.WriteLine("191061101023/M.Arvind/4th  
Year/A");  
  
        }try {  
  
            // Try to access invalid index of  
  
            array Console.WriteLine(arr[7]);  

```

```
        }  
        catch (IndexOutOfRangeException e) {  
            Console.WriteLine("An Exception has occurred : {0}", e.Message);  
        }  
    }  
}
```

OUTPUT:

1
2
3
4
5

An Exception has occurred: Index was outside the bounds of the array.

RESULT :

Hence, the program exception handling is executed & output is verified.

DESIGN A CALCULATOR

AIM:

To write a VB.net program to create a calculator.

ALGORITHM:

1. Start the program.
2. Create the GUI for the user.
3. Let the user enter two values in a Textbox.
4. Calculate the value based on the function selected by the user by clicking button.
5. Store the calculated value in a variable.
6. Display the resulted value in the result textbox when user click on = button.
7. Stop the program.

PROGRAM:

Partial Class Form1

Inherits System.Windows.Forms.Form

Dim first As Integer

Dim second As Integer

Dim operation As String

Dim result As Integer

'Form overrides dispose to clean up the component list.

<System.Diagnostics.DebuggerNonUserCode(>

Protected Overrides Sub Dispose(ByVal disposing As Boolean)

Try

If disposing AndAlso components IsNot Nothing Then

components.Dispose()

End If

Finally

MyBase.Dispose(disposing)

End Try

End Sub

'Required by the Windows Form Designer

Private components As System.ComponentModel.IContainer

'NOTE: The following procedure is required by the Windows Form Designer

'It can be modified using the Windows Form Designer.

'Do not modify it using the code editor.

<System.Diagnostics.DebuggerStepThrough(>

Private Sub InitializeComponent()

Me.TextBox1 = New System.Windows.Forms.TextBox()

Me.btn1 = New System.Windows.Forms.Button()

Me.btn2 = New System.Windows.Forms.Button()

Me.btn3 = New System.Windows.Forms.Button()

Me.btn4 = New System.Windows.Forms.Button()

Me.btn5 = New System.Windows.Forms.Button()

Me.btn6 = New System.Windows.Forms.Button()

Me.btn7 = New System.Windows.Forms.Button()

Me.btn8 = New System.Windows.Forms.Button()

Me.btn9 = New System.Windows.Forms.Button()

Me.btn0 = New System.Windows.Forms.Button()

```

Me.btnAC = New System.Windows.Forms.Button()

Me.btnOFF = New System.Windows.Forms.Button()

Me.btnaddition = New System.Windows.Forms.Button()

Me.btnsubtraction = New System.Windows.Forms.Button()

Me.btnmultiplication = New System.Windows.Forms.Button()

Me.btndivision = New System.Windows.Forms.Button()

Me.btnequals = New System.Windows.Forms.Button()

Me.SuspendLayout()

,

'TextBox1

,

Me.TextBox1.Location = New System.Drawing.Point(24, 84)

Me.TextBox1.Name = "TextBox1"

Me.TextBox1.Size = New System.Drawing.Size(341, 27)

Me.TextBox1.TabIndex = 0

,

'btn1

,

Me.btn1.Location = New System.Drawing.Point(24, 266)

Me.btn1.Name = "btn1"

Me.btn1.Size = New System.Drawing.Size(94, 29)

Me.btn1.TabIndex = 1

Me.btn1.Text = "1"

Me.btn1.UseVisualStyleBackColor = True

```

,

'btn2

,

Me.btn2.Location = New System.Drawing.Point(145, 266)

Me.btn2.Name = "btn2"

Me.btn2.Size = New System.Drawing.Size(94, 29)

Me.btn2.TabIndex = 2

Me.btn2.Text = "2"

Me.btn2.UseVisualStyleBackColor = True

,

'btn3

,

Me.btn3.Location = New System.Drawing.Point(271, 266)

Me.btn3.Name = "btn3"

Me.btn3.Size = New System.Drawing.Size(94, 29)

Me.btn3.TabIndex = 3

Me.btn3.Text = "3"

Me.btn3.UseVisualStyleBackColor = True

,

'btn4

,

Me.btn4.Location = New System.Drawing.Point(24, 215)

Me.btn4.Name = "btn4"

Me.btn4.Size = New System.Drawing.Size(94, 29)

```
Me.btn4.TabIndex = 4

Me.btn4.Text = "4"

Me.btn4.UseVisualStyleBackColor = True
,

'btn5
,

Me.btn5.Location = New System.Drawing.Point(145, 215)

Me.btn5.Name = "btn5"

Me.btn5.Size = New System.Drawing.Size(94, 29)

Me.btn5.TabIndex = 5

Me.btn5.Text = "5"

Me.btn5.UseVisualStyleBackColor = True
,

'btn6
,

Me.btn6.Location = New System.Drawing.Point(271, 215)

Me.btn6.Name = "btn6"

Me.btn6.Size = New System.Drawing.Size(94, 29)

Me.btn6.TabIndex = 6

Me.btn6.Text = "6"

Me.btn6.UseVisualStyleBackColor = True
,

'btn7
,
```

Me.btn7.Location = New System.Drawing.Point(24, 163)

Me.btn7.Name = "btn7"

Me.btn7.Size = New System.Drawing.Size(94, 29)

Me.btn7.TabIndex = 7

Me.btn7.Text = "7"

Me.btn7.UseVisualStyleBackColor = True

,

'btn8

,

Me.btn8.Location = New System.Drawing.Point(145, 163)

Me.btn8.Name = "btn8"

Me.btn8.Size = New System.Drawing.Size(94, 29)

Me.btn8.TabIndex = 8

Me.btn8.Text = "8"

Me.btn8.UseVisualStyleBackColor = True

,

'btn9

,

Me.btn9.Location = New System.Drawing.Point(271, 163)

Me.btn9.Name = "btn9"

Me.btn9.Size = New System.Drawing.Size(94, 29)

Me.btn9.TabIndex = 9

Me.btn9.Text = "9"

Me.btn9.UseVisualStyleBackColor = True

,

'btn0

,

Me.btn0.Location = New System.Drawing.Point(145, 324)

Me.btn0.Name = "btn0"

Me.btn0.Size = New System.Drawing.Size(94, 29)

Me.btn0.TabIndex = 10

Me.btn0.Text = "0"

Me.btn0.UseVisualStyleBackColor = True

,

'btnAC

,

Me.btnAC.Location = New System.Drawing.Point(24, 324)

Me.btnAC.Name = "btnAC"

Me.btnAC.Size = New System.Drawing.Size(94, 29)

Me.btnAC.TabIndex = 11

Me.btnAC.Text = "AC"

Me.btnAC.UseVisualStyleBackColor = True

,

'btnOFF

,

Me.btnOFF.Location = New System.Drawing.Point(271, 324)

Me.btnOFF.Name = "btnOFF"

Me.btnOFF.Size = New System.Drawing.Size(94, 29)

```

Me.btnOFF.TabIndex = 12

Me.btnOFF.Text = "OFF"

Me.btnOFF.UseVisualStyleBackColor = True
,

'btnaddition
,

Me.btnaddition.Location = New System.Drawing.Point(437, 163)

Me.btnaddition.Name = "btnaddition"

Me.btnaddition.Size = New System.Drawing.Size(94, 29)

Me.btnaddition.TabIndex = 13

Me.btnaddition.Text = "+"

Me.btnaddition.UseVisualStyleBackColor = True
,

'btnsubtraction
,

Me.btnsubtraction.Location = New System.Drawing.Point(574, 163)

Me.btnsubtraction.Name = "btnsubtraction"

Me.btnsubtraction.Size = New System.Drawing.Size(94, 29)

Me.btnsubtraction.TabIndex = 14

Me.btnsubtraction.Text = "-"

Me.btnsubtraction.UseVisualStyleBackColor = True
,

'btnmultiplication
,
```


Me.btnmultiplication.Location = New System.Drawing.Point(437, 215)

Me.btnmultiplication.Name = "btnmultiplication"

Me.btnmultiplication.Size = New System.Drawing.Size(94, 29)

Me.btnmultiplication.TabIndex = 15

Me.btnmultiplication.Text = "*"

Me.btnmultiplication.UseVisualStyleBackColor = True

,

'btndivision

,

Me.btndivision.Location = New System.Drawing.Point(574, 215)

Me.btndivision.Name = "btndivision"

Me.btndivision.Size = New System.Drawing.Size(94, 29)

Me.btndivision.TabIndex = 16

Me.btndivision.Text = "/"

Me.btndivision.UseVisualStyleBackColor = True

,

'btnequals

,

Me.btnequals.Location = New System.Drawing.Point(507, 266)

Me.btnequals.Name = "btnequals"

Me.btnequals.Size = New System.Drawing.Size(94, 29)

Me.btnequals.TabIndex = 17

Me.btnequals.Text = "="

Me.btnequals.UseVisualStyleBackColor = True

,

Form1

,

Me.AutoScaleDimensions = New System.Drawing.SizeF(8.0!, 20.0!)

Me.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font

Me.ClientSize = New System.Drawing.Size(721, 407)

Me.Controls.Add(Me.btnequals)

Me.Controls.Add(Me.btndivision)

Me.Controls.Add(Me.btnmultiplication)

Me.Controls.Add(Me.btnsubtraction)

Me.Controls.Add(Me.btnaddition)

Me.Controls.Add(Me.btnOFF)

Me.Controls.Add(Me.btnAC)

Me.Controls.Add(Me.btn0)

Me.Controls.Add(Me.btn9)

Me.Controls.Add(Me.btn8)

Me.Controls.Add(Me.btn7)

Me.Controls.Add(Me.btn6)

Me.Controls.Add(Me.btn5)

Me.Controls.Add(Me.btn4)

Me.Controls.Add(Me.btn3)

Me.Controls.Add(Me.btn2)

Me.Controls.Add(Me.btn1)

Me.Controls.Add(Me.TextBox1)

Me.Name = "Form1"

Me.Text = "191061101023/M.Arvind/4th Year/A"

Me.ResumeLayout(False)

Me.PerformLayout()

End Sub

Friend WithEvents TextBox1 As TextBox

Friend WithEvents btn1 As Button

Friend WithEvents btn2 As Button

Friend WithEvents btn3 As Button

Friend WithEvents btn4 As Button

Friend WithEvents btn5 As Button

Friend WithEvents btn6 As Button

Friend WithEvents btn7 As Button

Friend WithEvents btn8 As Button

Friend WithEvents btn9 As Button

Friend WithEvents btn0 As Button

Friend WithEvents btnAC As Button

Friend WithEvents btnOFF As Button

Friend WithEvents btnaddition As Button

Friend WithEvents btnsubtraction As Button

Friend WithEvents btnmultiplication As Button

Friend WithEvents btndivision As Button

Friend WithEvents btnequals As Button

Private Sub btn0_Click(sender As Object, e As EventArgs) Handles btn0.Click

 TextBox1.Text = TextBox1.Text & "0"

End Sub

Private Sub btn1_Click(sender As Object, e As EventArgs) Handles btn1.Click

 TextBox1.Text = TextBox1.Text & "1"

End Sub

Private Sub btn2_Click(sender As Object, e As EventArgs) Handles btn2.Click

 TextBox1.Text = TextBox1.Text & "2"

End Sub

Private Sub btn3_Click(sender As Object, e As EventArgs) Handles btn3.Click

 TextBox1.Text = TextBox1.Text & "3"

End Sub

Private Sub btn4_Click(sender As Object, e As EventArgs) Handles btn4.Click

 TextBox1.Text = TextBox1.Text & "4"

End Sub

Private Sub btn5_Click(sender As Object, e As EventArgs) Handles btn5.Click

 TextBox1.Text = TextBox1.Text & "5"

End Sub

Private Sub btn6_Click(sender As Object, e As EventArgs) Handles btn6.Click

 TextBox1.Text = TextBox1.Text & "6"

End Sub

Private Sub btn7_Click(sender As Object, e As EventArgs) Handles btn7.Click

 TextBox1.Text = TextBox1.Text & "7"

End Sub

Private Sub btn8_Click(sender As Object, e As EventArgs) Handles btn8.Click

 TextBox1.Text = TextBox1.Text & "8"

End Sub

Private Sub btn9_Click(sender As Object, e As EventArgs) Handles btn9.Click

 TextBox1.Text = TextBox1.Text & "9"

End Sub

Private Sub btnaddition_Click(sender As Object, e As EventArgs) Handles btnaddition.Click

 first = Val(TextBox1.Text)

 TextBox1.Text = TextBox1.Text & "+"

 operation = "+"

End Sub

Private Sub btnsubtraction_Click(sender As Object, e As EventArgs) Handles btnsubtraction.Click

 first = Val(TextBox1.Text)

 TextBox1.Text = TextBox1.Text & "-"

 operation = "-"

End Sub

Private Sub btnmultiplication_Click(sender As Object, e As EventArgs) Handles
btnmultiplication.Click

 first = Val(TextBox1.Text)

 TextBox1.Text = TextBox1.Text & "*"

 operation = "*"

End Sub

Private Sub btndivision_Click(sender As Object, e As EventArgs) Handles btndivision.Click

 first = Val(TextBox1.Text)

```
TextBox1.Text = TextBox1.Text & "/"
```

```
operation = "/"
```

```
End Sub
```

```
Private Sub btnequals_Click(sender As Object, e As EventArgs) Handles btnequals.Click
```

```
    second = Val(TextBox1.Text)
```

```
    Select Case operation
```

```
        Case "+"
```

```
            result = first + second
```

```
        Case "-"
```

```
            result = first - second
```

```
        Case "*"
```

```
            result = first * second
```

```
        Case "/"
```

```
            result = first / second
```

```
    End Select
```

```
    TextBox1.Text = result
```

```
End Sub
```

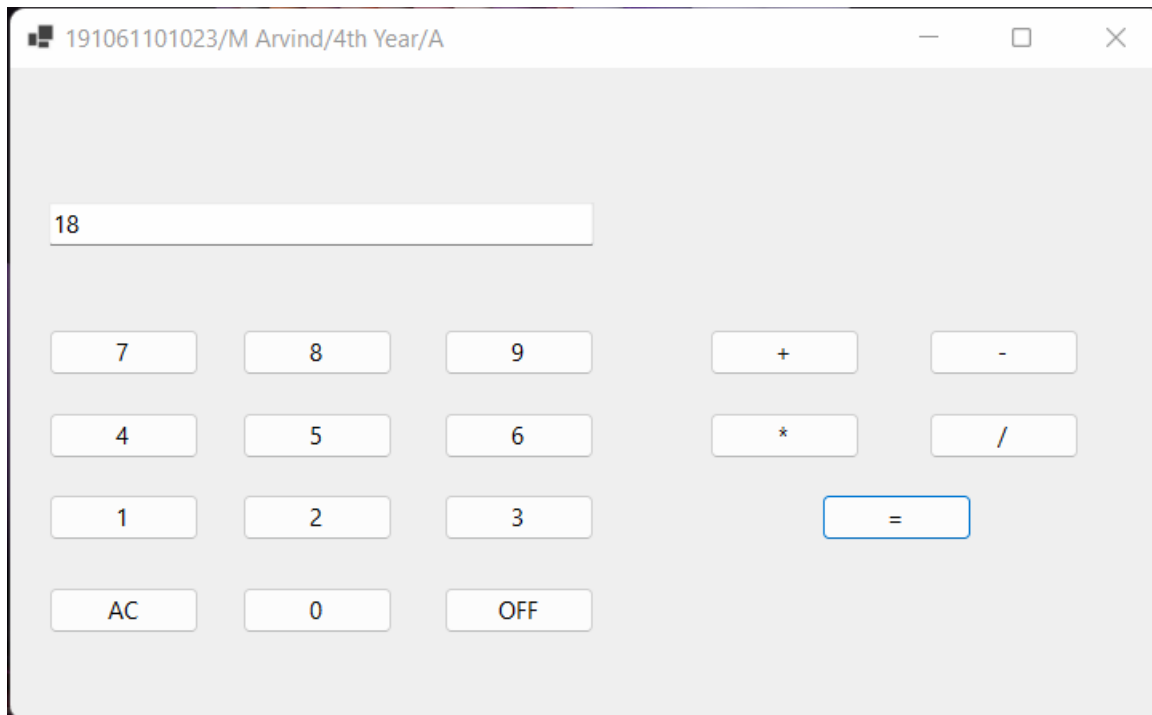
```
Private Sub btnAC_Click(sender As Object, e As EventArgs) Handles btnAC.Click
```

```
    TextBox1.Clear()
```

```
End Sub
```

```
End Class
```

OUTPUT:



RESULT:

Hence, the program calculator is executed & output is verified.

IMPLEMENT FILE HANDLING

AIM:

To write a VB.NET program to find the net salary of employee.

ALGORITHM:

1. Start the program.
2. Create a object using its syntax.
3. Use filemode ,file access to create or open a file.
4. Stop the program.

PROGRAM:

To READ FILE

```
-----  
Imports System.IO  
Module Module1  
    Sub Main()  
        Dim str As String = Nothing  
        Console.WriteLine("191061101023/M Arvind/4th Year/A")  
        Try  
            str = File.ReadAllText("D:\myFile.txt")  
            Console.WriteLine("Content of file: {0}", str)  
        Catch ex As FileNotFoundException  
            Console.WriteLine("File does not exist")  
        End Try  
    End Sub  
End Module
```

TO MODIFY OR APPEND

```
-----  
Imports System.IO  
Module Module1
```



```

Sub Main()
    Dim str As String = Nothing
    Console.WriteLine("191061101023/M Arvind/4th Year/A")
    Try
        str = File.ReadAllText("D:\myFile.txt")
        Console.WriteLine("Content of file before append text: ")
        Console.WriteLine(str)
        Console.WriteLine("Enter text to append into file:")
        str = Console.ReadLine()
        File.AppendAllText("D:\myFile.txt", str)
        Console.WriteLine("Content after append:")
        str = File.ReadAllText("myFile.txt")
        Console.WriteLine(str)
    Catch ex As FileNotFoundException
        Console.WriteLine("File does not exist")
    End Try
End Sub
End Module

```

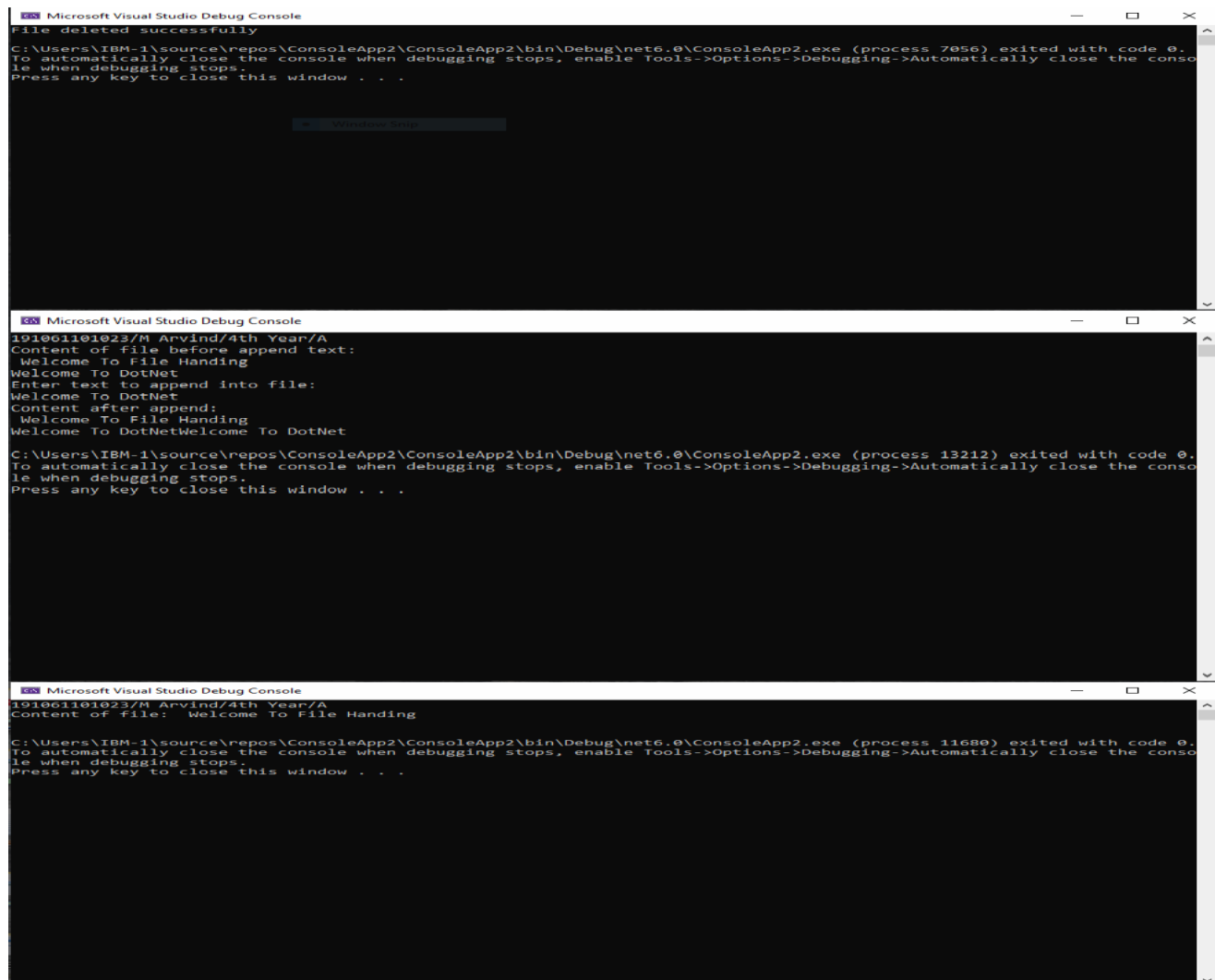
To DELETE FILE

```

'VB.Net program to delete a specified file.
Imports System.IO
Module Module1
    Sub Main()
        Console.WriteLine("191061101023/M Arvind/4th Year/A")
        Try
            File.Delete("D:\myFile.txt")
            Console.WriteLine("File deleted successfully")
        Catch ex As FileNotFoundException
            Console.WriteLine("File does not exist")
        End Try
    End Sub
End Module

```

OUTPUT:



The image displays three sequential screenshots of the Microsoft Visual Studio Debug Console, showing the output of a program. Each window has a title bar that reads "Microsoft Visual Studio Debug Console".

The first screenshot shows the message "File deleted successfully" followed by a standard exit message: "C:\Users\IBM-1\source\repos\ConsoleApp2\ConsoleApp2\bin\Debug\net6.0\ConsoleApp2.exe (process 7056) exited with code 0. To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops. Press any key to close this window . . .".

The second screenshot shows the program's execution flow: it displays the user's input "191001101023/M Arvind/4th Year/A", shows the "Content of File before append text:" as "Welcome To File Handling", prompts for "Enter text to append into file:" (input: "Welcome To DotNet"), shows the "Content after append:" (input: "Welcome To File Handling"), and finally displays the updated "Content of File:" as "Welcome To DotNetWelcome To DotNet". It then shows the same exit message as the first screenshot.

The third screenshot shows the final state of the file, displaying "Content of File: Welcome To File Handling" and the same exit message.

RESULT:

Hence, the program file handling is executed & output is verified.

EXP NO: 7(i)

DATE: 08/08/2024

VOTERS

AIM:

To write a C# program for voters through exception handling.

ALGORITHM:

1. Start the program.
2. Declare the name & age its data-type.
3. Use the try-catch method to getting the result.
4. Use if method for checking the age.
5. Get the message-box for getting the output as the user are eligible for vote or not.
6. Stop the program.

PROGRAM:

Public Class Form1

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim age As Integer

age = Val(TextBox1.Text)

If age >= 18 Then

MessageBox.Show("You are eligible to vote")

Else

MessageBox.Show("You are not not eligible to vote")

End If

End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

TextBox1.Clear()

End Sub

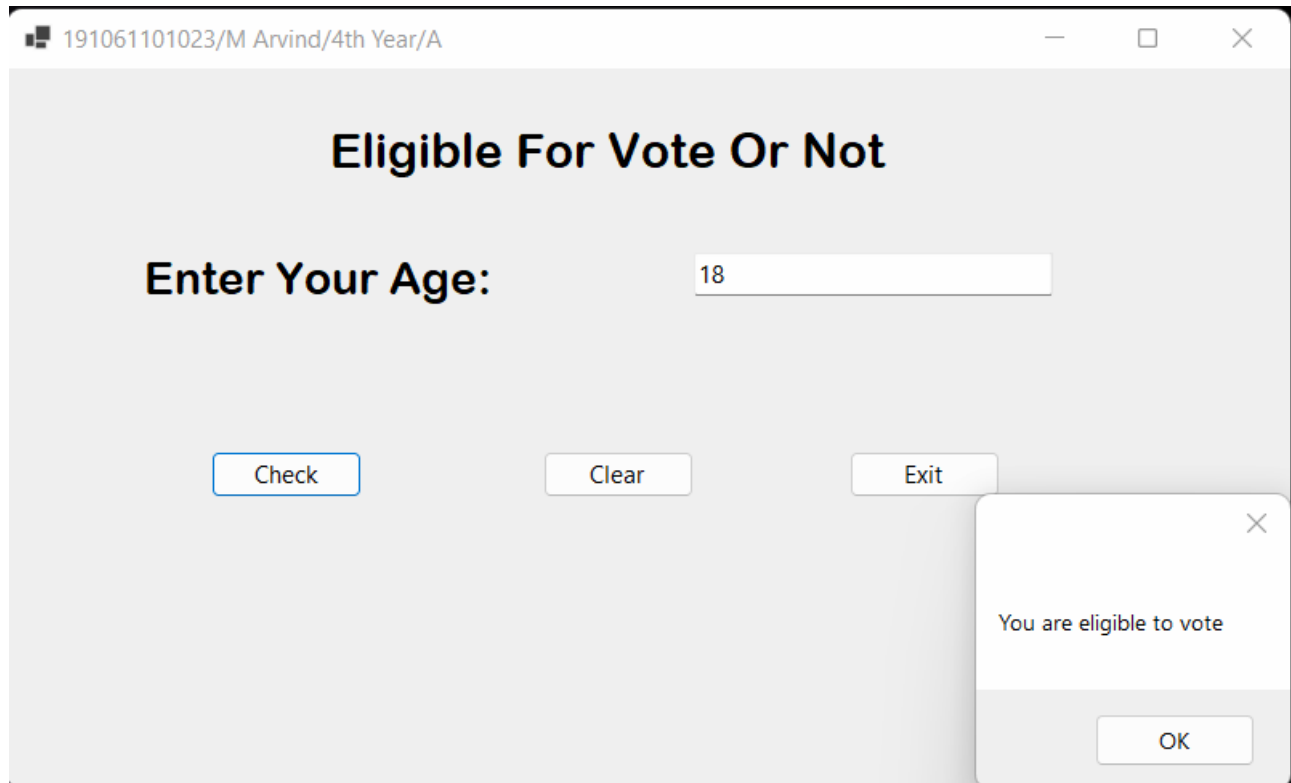
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

Close()

End Sub

End Class

OUTPUT:



RESULT:

Hence, the program - voters is executed & output is verified.

EXP NO: 7(ii)

DATE: 08/08/2024

STUDENT STATUS

AIM:

To write a c# program to find student status through exception handling

ALGORITHM:

1. Create a list of students with four variables(Id, name department and semester).
2. Iterate through the student details by using for loop and get the student details by using select clause
3. Display the student details.

PROGRAM:

Public Class Form1

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

 MessageBox.Show("You have not paid the fees")

End Sub

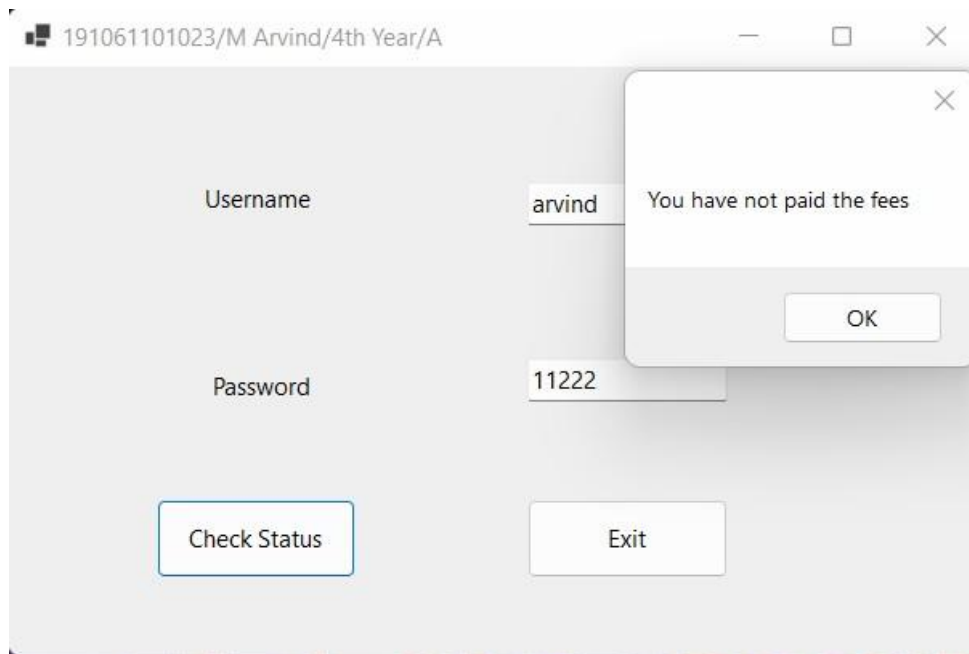
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

 Close()

End Sub

End Class

OUTPUT:



RESULT:

Hence, the program – student status is executed & output is verified.

SUPER MARKET

AIM:

To write a asp.net program to create super market.

ALGORITHM:

- 1) Start
- 2) Create a dynamic web page using html codes
- 3) Design a label textbox button
- 4) After clicking the submit button, we will get all the details about the super market
- 5) Stop

PROGRAM:

WINFORM.ASPX.CS:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace WebApplication3
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
        Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Sony\source\repos\WebApplicati
        on3\WebApplication3\App_Data\Database1.mdf;Integrated Security=True");
        protected void Page_Load(object sender, EventArgs e)
        {
```

```

if (con.State == ConnectionState.Open)
    {
con.Close();
    }
con.Open();
disp_data();
    }

protectedvoid Button1_Click(object sender, EventArgs e)
    {
SqlCommandcmd = con.CreateCommand();
cmd.CommandType = CommandType.Text;
cmd.CommandText = "insert into Market2
values('"+custname.Text+"','"+phonenumber.Text+"','"+city.Text+"','"+itemname.Text+"','"+price.Te
xt+"')";
cmd.ExecuteNonQuery();
custname.Text = "";
phonenumber.Text = "";
city.Text = "";
itemname.Text = "";
price.Text = "";
disp_data();
    }
publicvoiddisp_data()
    {
SqlCommandcmd = con.CreateCommand();
cmd.CommandType = CommandType.Text;
cmd.CommandText = "select * from Market2";
cmd.ExecuteNonQuery();
DataTabledt = newDataTable();
SqlDataAdapter da = newSqlDataAdapter(cmd);

da.Fill(dt);

```



```

//GridView1.DataSource = dt;
// GridView1.DataBind();

    }
protectedvoid Button2_Click(object sender, EventArgs e)
    {
        SqlCommandcmd = con.CreateCommand();
        cmd.CommandType = CommandType.Text;
        cmd.CommandText = "delete from Market2 where custname='"+custname.Text+"'";
        cmd.ExecuteNonQuery();
        custname.Text = "";
        disp_data();
    }
}

```

WINFORM.ASPX:

```

<% @PageLanguage="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication3.WebForm1"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
<title>SUPER MARKET</title>
</head>
<h1>SUPER MARKET</h1>
<body>
<formid="form1" runat="server">
<div>
<table>
<tr>
<td> CUSTOMER NAME</td>
<td><asp:TextBoxID="custname"runat="server"></asp:TextBox></td>
</tr>

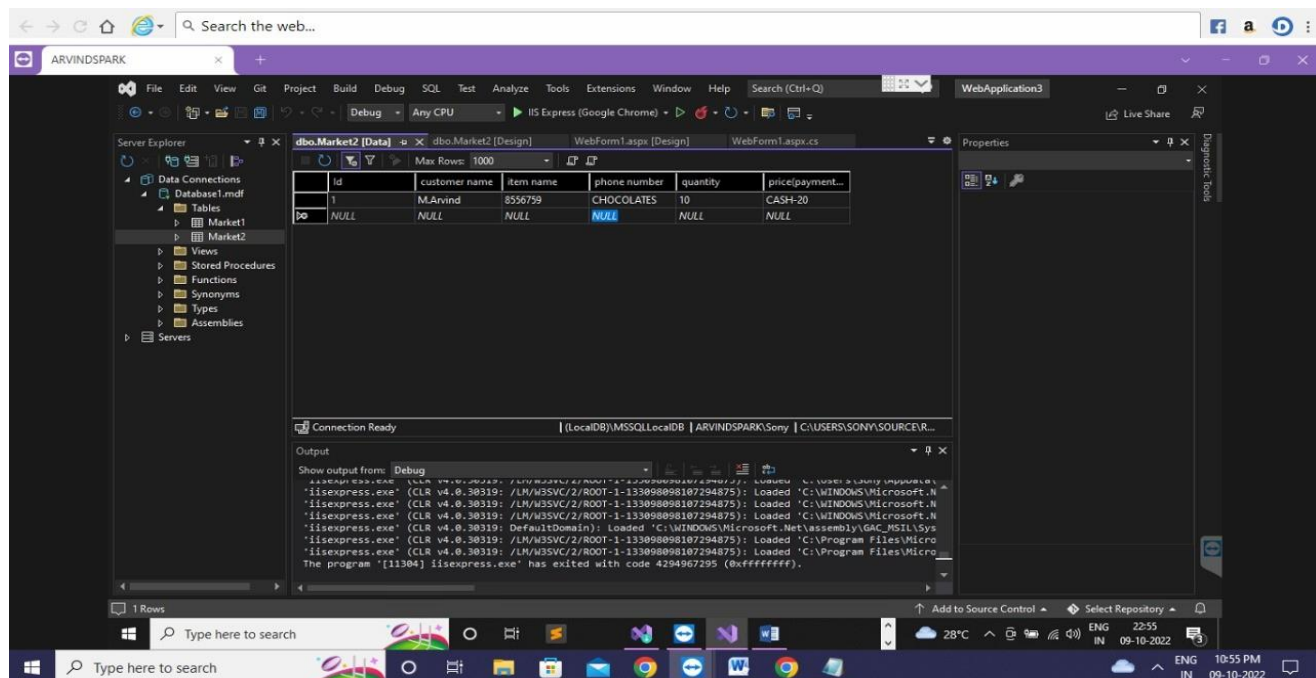
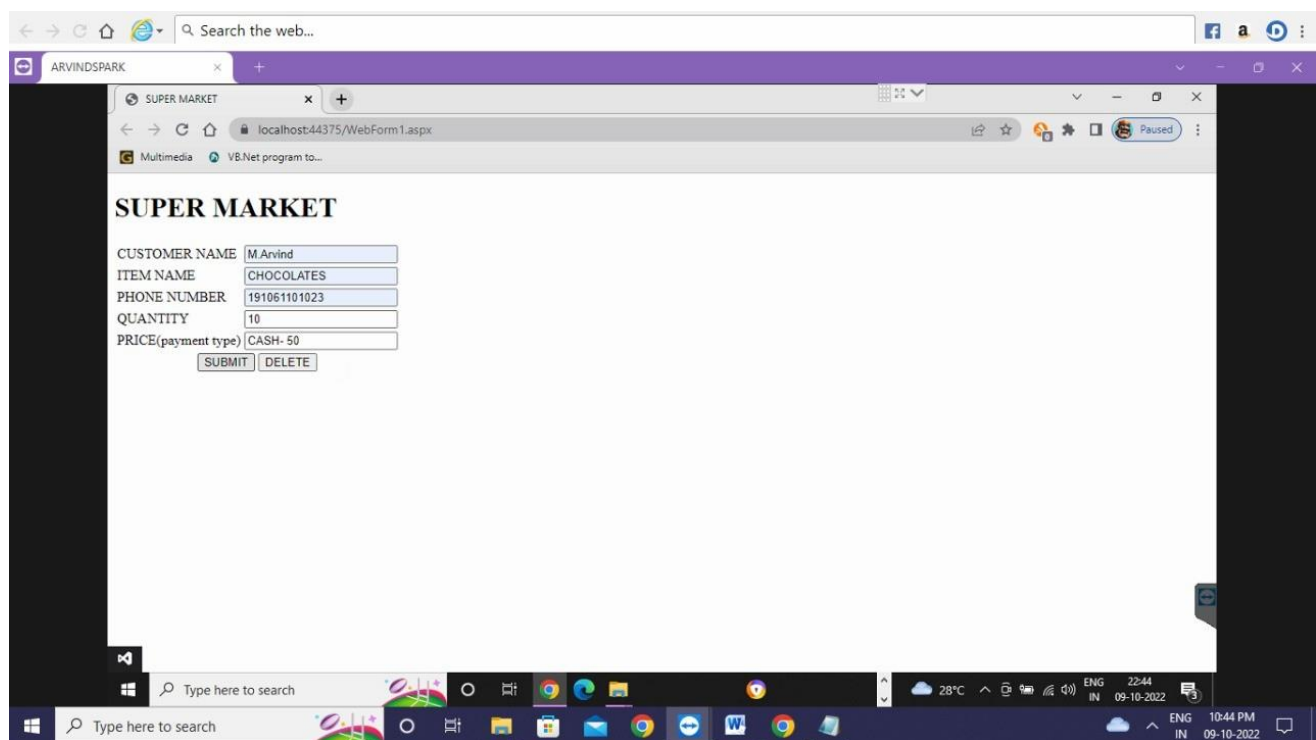
```

```

<tr>
<td>ITEM NAME</td>
<td><asp:TextBoxID="city"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>PHONE NUMBER</td>
<td><asp:TextBoxID="phonenummer"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>QUANTITY</td>
<td><asp:TextBoxID="itemname"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>PRICE(payment type)</td>
<td><asp:TextBoxID="price"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td colspan="2" align="center">
<asp:ButtonID="Button1"runat="server"Text="SUBMIT"OnClick="Button1_Click"/>
<asp:ButtonID="Button2"runat="server"Text="DELETE"OnClick="Button2_Click"/>
</td>
</tr>
</table>
<br/>
</div>
</form>
</body>
</html>

```

OUTPUT:



RESULT:

Hence, the program - super market is executed & output is verified

HOTEL MANAGEMENT SYSTEM

AIM:

To write a asp.net program to create a hotel management system.

ALGORITHM:

- 1) Start
- 2) Create dynamic webpage using html codes
- 3) Design the label textbox and button for getting output
- 4) Add all the details Customer Name, Customer Number and details required for the program
- 5) Stop

PROGRAM:**WEBFROM1.ASPX :**

```
<% @PageLanguage="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication3.WebForm1"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
<title>HOTEL MANAGEMENT SYSTEM</title>
</head>
<h1>HOTEL MANAGEMENT SYSTEM</h1>
<body>
<formid="form1"runat="server">
<div>
<table>
<tr>
<td>CUSTOMER NAME</td>
<td><asp:TextBoxID="custname"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td><td>CUSTOMER NUMBER</td>
<td><asp:TextBoxID="city"runat="server"></asp:TextBox></td>
</tr>
```

```

<tr>
<td>ROOM NUMBER</td>
<td><asp:TextBoxID="phonenumber"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>ROOM TYPE</td>
<td><asp:TextBoxID="itemname"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>PRICE(payment type)</td>
<td><asp:TextBoxID="price"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td colspan="2" align="center">
<asp:ButtonID="Button1"runat="server"Text="SUBMIT"OnClick="Button1_Click"/>
<asp:ButtonID="Button2"runat="server"Text="DELETE"OnClick="Button2_Click"/>
</td>
</tr>
</table>
<br/>
</div>
</form>
</body>
</html>

```

WEBFORM1.ASPX.CS:

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace WebApplication3

```

```

{
publicpartialclassWebForm1 : System.Web.UI.Page
{
SqlConnection con = newSqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Sony\source\repos\WebApplicati
on3\WebApplication3\App_Data\Database1.mdf;Integrated Security=True");
protectedvoidPage_Load(object sender, EventArgs e)
{
if (con.State == ConnectionState.Open)
{
con.Close();
}
con.Open();
disp_data();
}
protectedvoid Button1_Click(object sender, EventArgs e)
{
SqlCommandcmd = con.CreateCommand();
cmd.CommandType = CommandType.Text;
cmd.CommandText = "insert into Hotel1
values('"+custname.Text+"','"+phonenumner.Text+"','"+city.Text+"','"+itemname.Text+"','"+price.Te
xt+"')";
cmd.ExecuteNonQuery();
custname.Text = "";
phonenumner.Text = "";
city.Text = "";
itemname.Text = "";
price.Text = "";
disp_data();
}
publicvoiddisp_data()
{
SqlCommandcmd = con.CreateCommand();
cmd.CommandType = CommandType.Text;

```

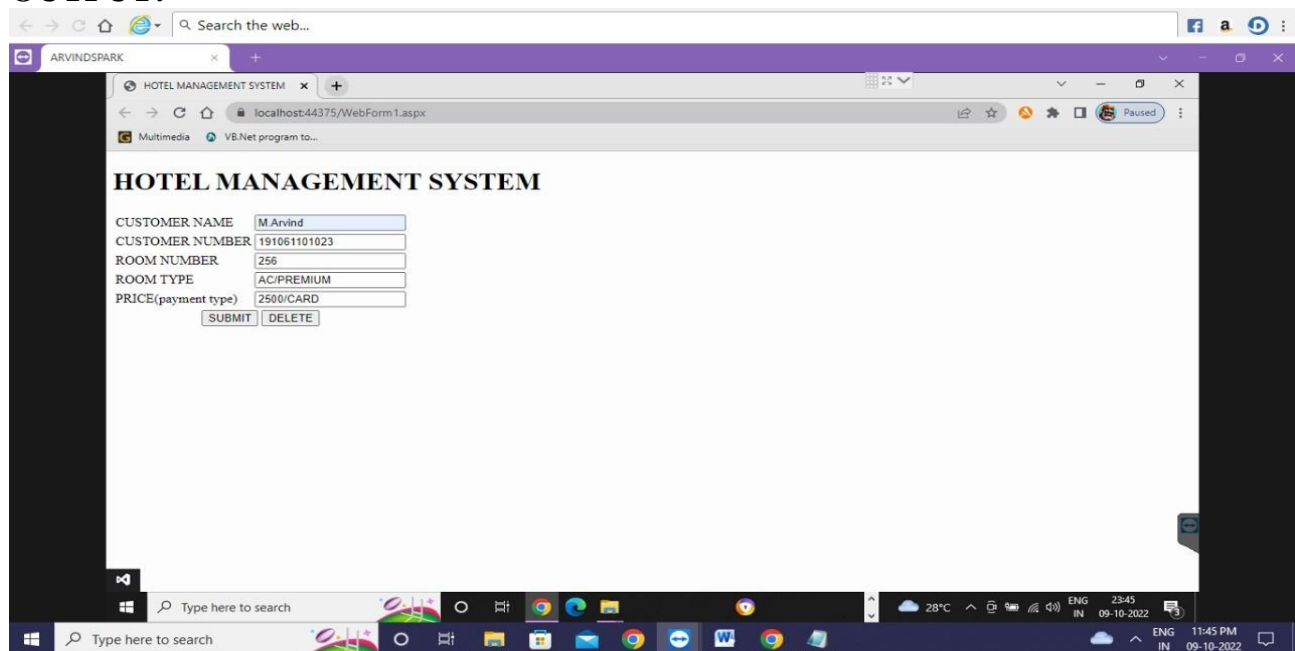
```

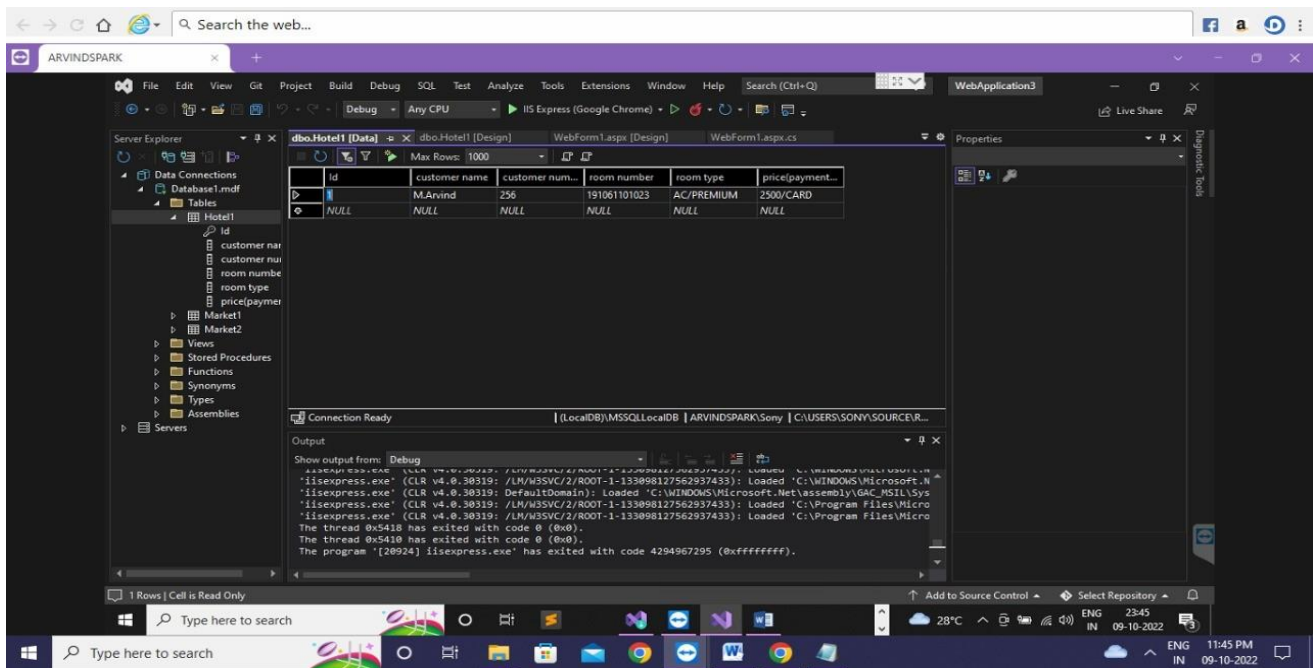
cmd.CommandText = "select * from Hotel1";
cmd.ExecuteNonQuery();
DataTable dt = new DataTable();
SqlDataAdapter da = new SqlDataAdapter(cmd);
da.Fill(dt);
//GridView1.DataSource = dt;
// GridView1.DataBind();
}

protected void Button2_Click(object sender, EventArgs e)
{
SqlCommand cmd = con.CreateCommand();
cmd.CommandType = CommandType.Text;
cmd.CommandText = "delete from Hotel1 where custname='" + custname.Text + "'";
cmd.ExecuteNonQuery();
custname.Text = "";
disp_data();
}
}
}

```

OUTPUT:





RESULT:

Hence, the program-hotel management system is executed & output is verified

STUDENT ATTENDANCE CALCULATION

AIM:

To write a program for student attendance calculation using ADO.NET.

ALGORITHM:

- 1.Start the program.
- 2.Create a empty c# web application
- 3.Create a database using “sql server database”.
- 4.Create a web form.
- 5.Drag drop buttons, textbox, labels and Grid view.
- 6.End the program.

PROGRAM:

Webform1.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Diagnostics;
namespace WebApplication6
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Sony\source\repos\WebApplicati
```

```

on6\WebApplication6\App_Data\Database1.mdf;Integrated Security=True");
protected void Page_Load(object sender, EventArgs e)
{
    if (con.State == ConnectionState.Open)
    {
        con.Close();
    }
    con.Open();
    disp_data();
}

protected void Button1_Click(object sender, EventArgs e)
{
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "insert into Attendance1 values('" + name.Text + "','" + regno.Text + "','"
+ wd.Text + "','" + pd.Text + "','" + ad.Text + "','" + percent.Text + "','" + fine.Text + "')";
    cmd.ExecuteNonQuery();
    name.Text = "";
    regno.Text = "";
    wd.Text = "";
    pd.Text = "";
    ad.Text = "";
    percent.Text = "";
    fine.Text = "";
    disp_data();
}

public void disp_data()
{
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "select * from Attendance1";
    cmd.ExecuteNonQuery();
    DataTable dt = new DataTable();

```

```

        SqlDataAdapter da = new SqlDataAdapter(cmd);
        da.Fill(dt);
        GridView1.DataSource = dt;
        GridView1.DataBind();
    }
}
}

```

Webform.aspx:

```

<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication6.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title>STUDENT ATTENDENCE CALCULATION</title>
</head>
<body>
<h1>STUDENT ATTENDENCE CALCULATION</h1>
<h1>SUVEDHINI REDDY 191061101602</h1>
<form id="form1" runat="server">
<div>
<table>
<tr>
<td>Name</td>
<td><asp:TextBox ID="name" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Reg No</td>
<td><asp:TextBox ID="regno" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Total No of working days</td>
<td><asp:TextBox ID="wd" runat="server"></asp:TextBox></td>
</tr>

```

```

<tr>
<td>Present Days</td>
<td><asp:TextBox ID="pd" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Absent Days</td>
<td><asp:TextBox ID="ad" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Percentage</td>
<td><asp:TextBox ID="percent" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Fine</td>
<td><asp:TextBox ID="fine" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td colspan="2" align="center">
<asp:Button ID="Button1" runat="server" Text="SUBMIT" OnClick="Button1_Click" />
<asp:Button ID="Button2" runat="server" Text="DELETE" />
</td>
</tr>
</table>
<br />
<asp:GridView ID="GridView1" runat="server"></asp:GridView>
</div>
</form>
</body>
</html>

```

OUTPUT:

STUDENT ATTENDANCE CALCULATION

M.ARVIND 191061101023

Name:
Reg No:
Total No of working days:
Present Days:
Absent Days:
Percentage:
Fine:

Id	Name	RegNo	Total working days	Presentdays	Absentdays	Percentage	Fine
1	Arvind	191061101023	80	40	40	50	No Fine

STUDENT ATTENDANCE CALCULATION

M.ARVIND 191061101023

Name:
Reg No:
Total No of working days:
Present Days:
Absent Days:
Percentage:
Fine:

RESULT:

Hence, the program – student attendance calculation is executed & output is verified

HOSPITAL MANAGEMENT SYSTEM

AIM:

To write a program for hospital management system using ADO.NET.

ALGORITHM:

- 1) Start the program.
- 2) Create a empty c# web application
- 3) Create a database using “sql server database”.
- 4) Create a web form.
- 5) Drag drop buttons, textbox, labels and Grid view.
- 6) End the program.

PROGRAM:

webForm1.aspx

```
<% @PageLanguage="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication3.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title>HOSPITAL MANAGEMENT SYSTEM</title>
</head>
<h1>HOSPITAL MANAGEMENT SYSTEM</h1>
<body>
<form id="form1" runat="server">
<div>
<table>
<tr>
<td> Patient Name</td>
<td><asp:TextBox ID="custname" runat="server"></asp:TextBox></td>
</tr>
<tr>
```

```

<td>PhoneNumber</td>
<td><asp:TextBoxID="phonenumber"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Address</td>
<td><asp:TextBoxID="city"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Disease</td>
<td><asp:TextBoxID="itemname"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>Billing</td>
<td><asp:TextBoxID="price"runat="server"></asp:TextBox></td>
</tr>
<tr>
<td colspan="2" align="center">
<asp:ButtonID="Button1"runat="server"Text="SUBMIT"OnClick="Button1_Click"/>
<asp:ButtonID="Button2"runat="server"Text="DELETE"OnClick="Button2_Click"/>
</td>
</tr>
</table>
<br/>
<asp:GridViewID="GridView1"runat="server"></asp:GridView>
</div>
</form>
</body></html>

```

Webform.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;

```

```

using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace WebApplication3
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
        Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Sony\source\repos\WebApplicati
        on3\WebApplication3\App_Data\Database1.mdf;Integrated Security=True");
        protected void Page_Load(object sender, EventArgs e)
        {
            if (con.State == ConnectionState.Open)
            {
                con.Close();
            }
            con.Open();
            disp_data();
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            SqlCommand cmd = con.CreateCommand();
            cmd.CommandType = CommandType.Text;
            cmd.CommandText = "insert into Market1
            values('"+custname.Text+"','"+phonenumner.Text+"','"+city.Text+"','"+itemname.Text+"','"+price.Te
            xt+"')";
            cmd.ExecuteNonQuery();
            custname.Text = "";
            phonenumner.Text = "";
            city.Text = "";
            itemname.Text = "";
            price.Text = "";
            disp_data();
        }
    }
}

```



```

public void disp_data()
{
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "select * from Market1";
    cmd.ExecuteNonQuery();
    DataTable dt = new DataTable();
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    da.Fill(dt);
    GridView1.DataSource = dt;
    GridView1.DataBind();
}

protected void Button2_Click(object sender, EventArgs e)
{
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "delete from Market1 where custname='"+custname.Text+"'";
    cmd.ExecuteNonQuery();
    custname.Text = "";
    disp_data();
}
}

```

OUTPUT:

HOSPITAL MANAGEMENT SYSTEM

Patient Name
PhoneNumber
Address
Disease
Billing

id	customername	phonenumber	city	itemname	price
9	M.Arvind	191061101023	no 2 gandhi street adyar	typhoid	1000

HOSPITAL MANAGEMENT SYSTEM

Patient Name
PhoneNumber
Address
Disease
Billing

RESULT:

Hence, the program hospital management system is executed & output is verified.

INCOME TAX CALCULATION

AIM:

To write a program for Income tax calculation using web service.

ALGORITHM:

- 1) Start the program.
- 2) Create a empty c# web application
- 3) Create a web service.
- 4) Create a new window c# project within web service(we can create a number of new projects within a single web service).
- 5) Design the form that means Drag and Drop buttons, textbox and labels.
- 6) End the program.

PROGRAM:

WEBSERVICE1.asmx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
namespace WebApplication8
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the
    following line.
    // [System.Web.Script.Services.ScriptService]
    public class WebService1 : System.Web.Services.WebService{
```

```
[WebMethod]
public string HelloWorld()
{
    return "INCOME TAX";
}
```

```
[WebMethod]
public int add(int a,int b)
{
    int c=a+b;
    int g= (c/100)*5;
    return (g);
}
```

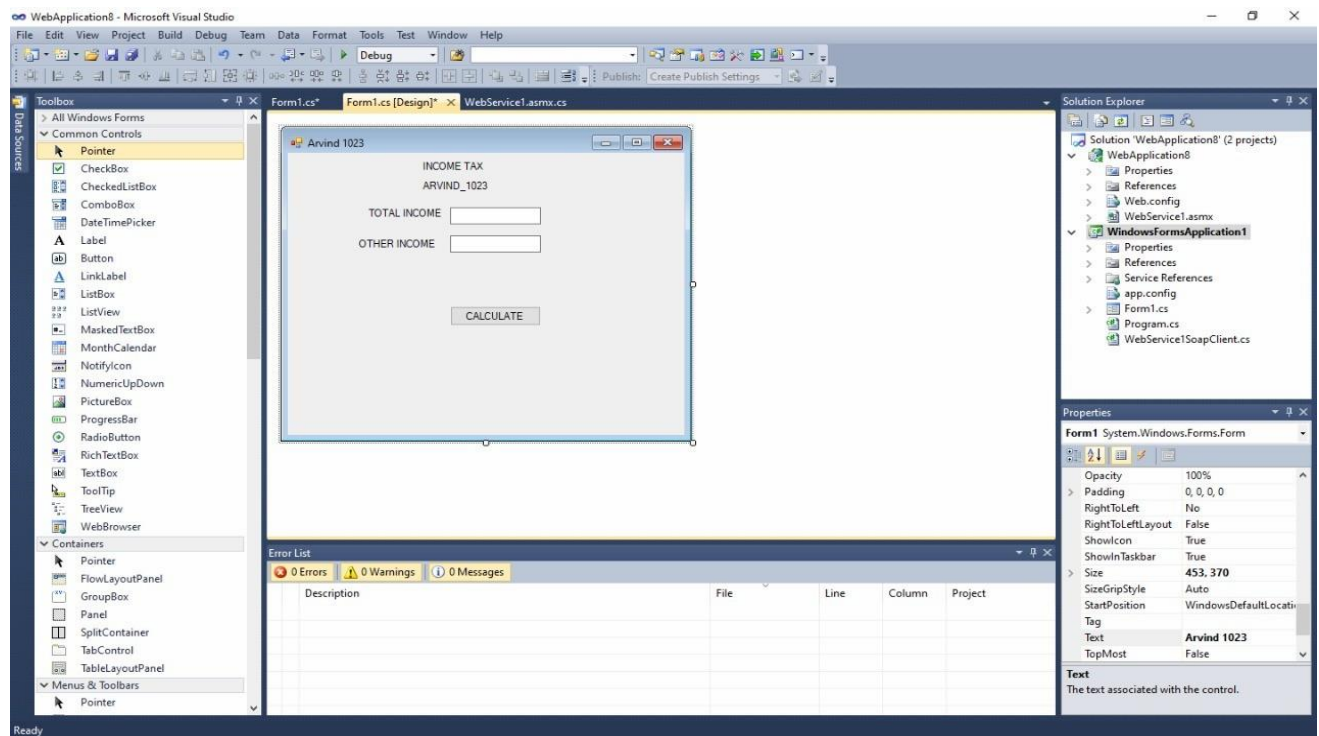
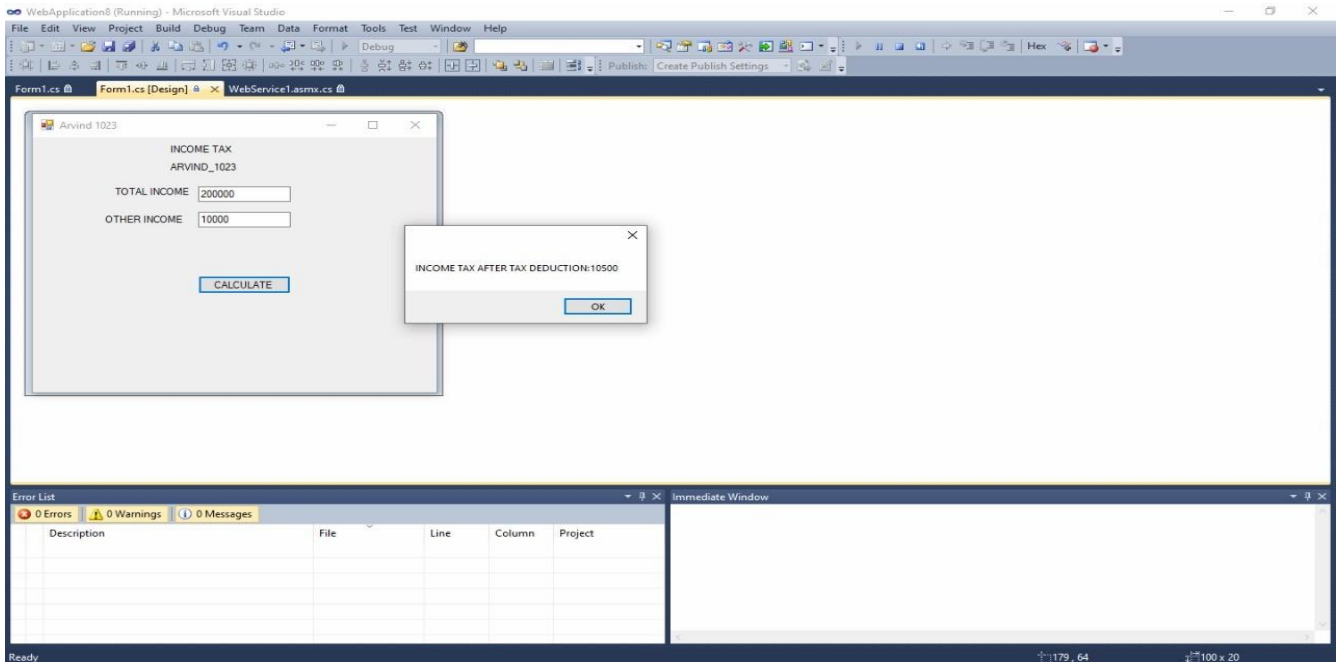
```
}
}
Annamalai 1029.cs*:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using WindowsFormsApplication1.ServiceReference1;
namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        WebService1SoapClient obj;
        public Form1()
        {
```

```

        InitializeComponent();
    }
    private void button1_Click(object sender, EventArgs e)
    {
        int a = Convert.ToInt32(textBox1.Text);
        int b = Convert.ToInt32(textBox2.Text);
        int ans = obj.add(a, b);
        MessageBox.Show("INCOME TAX AFTER TAX DEDUCTION:" + ans);
    }
    private void Form1_Load(object sender, EventArgs e)
    {
        obj = new WebService1SoapClient();
    }
    private void textBox1_TextChanged(object sender, EventArgs e)
    {
    }
    private void label4_Click(object sender, EventArgs e)
    {
    }
}
}

```

OUTPUT:



RESULT:

Hence, the program for income tax calculation is executed & output is verified